

STATEMENT OF BASIS

as required by LAC 33:IX.2411, for draft **Louisiana Pollutant Discharge Elimination System Permit No. LA0065340; A119402; PER20090002** to discharge to waters of the **State of Louisiana** as per LAC 33:IX.2311.

The **permitting authority** for the Louisiana Pollutant Discharge Elimination System (LPDES) is:

Louisiana Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

- I. THE APPLICANT IS:** Town of Melville
Melville Wastewater Treatment Plant
P.O. Box 268
Melville, LA 71353
- II. PREPARED BY:** Darlene Bernard
- DATE PREPARED:** June 16, 2009
- III. PERMIT ACTION:** Reissue LPDES permit LA0065340, A119402
LPDES application received: April 13, 2009
- LPDES permit issued: August 24, 2004
LPDES permit effective: September 1, 2004
LPDES permit expires: August 31, 2009

IV. FACILITY INFORMATION:

- A. The application is for the discharge of treated sanitary wastewater from a publicly owned treatment works serving the Town of Melville.
- B. The permit application does not indicate the receipt of industrial wastewater.
- C. The facility is located on Burton Street, in Melville, St. Landry Parish.
- D. The treatment facility consists of a three cell oxidation pond. Disinfection is by chlorination.

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E. Outfall 001

Discharge Location: Latitude 30°41'53" North
 Longitude 91°44'08" West

Description: treated sanitary wastewater

Design Capacity: 0.25 MGD

Type of Flow Measurement which the facility is currently using:

Continuous Recorder

V. RECEIVING WATERS:

The discharge is into the Atchafalaya River in subsegment 010201 of the Atchafalaya River Basin. Subsegment 010201 of the Atchafalaya River Basin is not listed on the 2006 303(d) list of impaired waterbodies.

The designated uses and degree of support for Segment 010201 of the Atchafalaya River Basin are as indicated in the table below^{1/}:

Overall Degree of Support for Segment 010201	Degree of Support of Each Use						
Full	Primary Contact Recreation	Secondary Contact Recreation	Propagation of Fish & Wildlife	Outstanding Natural Resource Water	Drinking Water Supply	Shell fish Propagation	Agriculture
	Full	Full	Full	N/A	Full	N/A	N/A

^{1/}The designated uses and degree of support for Segment 010201 of the Atchafalaya River Basin are as indicated in LAC 33:IX.1123.C.3, Table (3) and the 2006 Water Quality Management Plan, Volume 5, Part B, Water Quality Inventory respectively.

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VI. ENDANGERED SPECIES:

The receiving waterbody, Subsegment 010201 of the Atchafalaya River Basin, is listed in Section II.2 of the Implementation Strategy as requiring consultation with the U.S. Fish & Wildlife Service (FWS) as critical habitat for the Pallid Sturgeon, which is listed federally as a threatened/endangered species. This strategy was submitted with a letter dated November 17, 2008 from Rieck (FWS) to Nolan (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, a copy of the draft permit has been submitted to the FWS for review.

VII. HISTORIC SITES:

The discharge is from an existing facility location, which does not include an expansion beyond the existing perimeter. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the "Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits" no consultation with the Louisiana State Historic Preservation Officer is required..

VIII. PUBLIC NOTICE:

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the fact sheet. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

The public notice is published in a local paper of general circulation and the Office of Environmental Services Public Notice Mailing List.

For additional information contact:

Darlene Bernard
Permits Division
Department of Environmental Quality
Office of Environmental Services
PO Box 4313
Baton Rouge, LA 70821-4313

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IX. PROPOSED PERMIT LIMITS:

Final Effluent Limits:

OUTFALL 001

Final effluent limits shall become effective on the effective date of the permit and expire on the expiration date of the permit.

Effluent Characteristic	Monthly Avg. (lbs./day)	Monthly Avg.	Weekly Avg.	Basis
BOD ₅	63	30 mg/l	45 mg/l	Limits are set in accordance with the Statewide Sanitary Effluent Limitations Policy (SSELP) for facilities of this treatment type and size discharging into the Atchafalaya River.
TSS	188	90 mg/l	135 mg/l	Since there are no numeric water quality criterion for TSS, and in accordance with the current Water Quality Management Plan, the TSS effluent limitations shall be based on a case-by-case evaluation of the treatment technology being utilized at a facility. Therefore, a Technology Based Limit has been established through Best Professional Judgement for the type of treatment technology utilized at this facility.

Other Effluent Limitations:

1) Fecal Coliform

The discharge from this facility is into a water body which has a designated use of Primary Contact Recreation. According to LAC 33:IX.1113.C.5.a, the fecal coliform standards for this water body are 200/100 ml and 400/100 ml. Therefore, the limits of 200/100 ml (Monthly Average) and 400/100 ml (Weekly Average) are proposed as Fecal Coliform limits in the permit. These limits are being proposed through Best Professional Judgment in order to ensure that the water body standards are not exceeded, and due to the fact that existing facilities have demonstrated an ability to comply with these limitations using present available technology.

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2) **pH**

According to LAC 33:IX.5905.C., the pH shall not be less than 6.0 standard units nor greater than 9.0 standard units at any time.

3) **Solids and Foam**

There shall be no discharge of floating solids or visible foam in other than trace amounts in accordance with LAC 33:IX.1113.B.7.

X. **ENFORCEMENT AND SURVEILLANCE ACTIONS:**

A) **Inspections**

A review of EDMS indicates the following inspections were performed for this facility:

Date – June 13, 2006

Findings and/or violations:

Follow-up Inspection conducted in response to CO#MM-C-05-0060. The facility now has a flow meter to properly monitor flow. Overflows in the collection system are still not being reported with the DMRs. Non-Compliance reports are now being submitted with the DMRs. Missing DMRs were submitted to the department. The solid waste dump site at the WWTP has been closed and cleaned-up; the waste from the site went to Beggs Landfill in St. Landry Parish.

Date – November 30, 2007

Findings and/or violations:

Compliance Inspection revealed the treatment unit is a three cell oxidation pond. No trees were located on the levees. Effluent was being chlorinated. Flow meter was inoperable. Facility representative will have it fixed today. The meter became inoperable earlier in the week due to trash in the effluent, and was repaired. One overflow was reported due to a line blockage. Inspector was unable to observe the final outfall due to recent rain events. Sump pump at headworks was inoperable and the backup was in use. The pump had been removed for repairs.

Date – September 19, 2008

Findings and/or violations:

Hurricane assessment Inspection done as a result of Hurricane Gustav. Facility was operating at the time of the inspection. There were problems with the wet well pump at the WWTP. The facility lost power for 12 hours. There was minor flooding around the WWTP. There were problems with lift station #1. One pump was rotated between lift stations to pump into force main. There was one

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generator at lift station #2, and one Manhole overflow was noted.

B) Compliance and/or Administrative Orders

A review of EDMS revealed the following enforcement actions administered against this facility:

February 17, 2006

Compliance Order MM-C-05-0060 – Compliance order requires facility to:

- (1) Come into compliance with the LPDES Permit;
- (2) Submit properly completed DMRs for specific periods;
- (3) Cease depositing solid waste at the WWTP;
- (4) Close out the solid waste site at the WWTP;
- (5) Cease burning of solid waste at the WWTP

Note: There is no indication in EDMS that this enforcement action has been closed.

C) DMR Review

A review of the discharge monitoring reports for the period beginning January 1, 2007 through March 31, 2009 revealed the following violations:

Date	Parameter	DMR Value	Permit Limit
02-07	BOD ₅ , Mass	90 lbs/day	63 lbs/day
	TSS, Mass	250 lbs/day	188 lbs/day
04-07	TSS, Mass	269 lbs/day	188 lbs/day
	TSS, Monthly Avg.	91 mg/l	90 mg/l
	TSS, Weekly Avg.	152 mg/l	135 mg/l
05-07	pH	9.15 max	6-9 Standard Unit
06-07	Fecal Coliform, Mon. Avg	235/100 ml	200/100 ml
	Fecal Coliform, Weekly Avg	>1,000/100 ml	400/100ml
08-07	BOD ₅ , Mass	75 lbs/day	63 lbs/day
	BOD ₅ , Monthly Avg.	35 mg/l	30 mg/l
	BOD ₅ , Weekly Avg.	51 mg/l	45 mg/l
09-07	BOD ₅ , Mass	66 lbs/day	63 lbs/day
	BOD ₅ , Monthly Avg.	36 mg/l	30 mg/l
	BOD ₅ , Weekly Avg.	49 mg/l	45 mg/l
10-07	TSS, Monthly Avg.	127 mg/l	90 mg/l
	TSS, Weekly Avg.	144 mg/l	135 mg/l
11-07	BOD ₅ , Monthly Avg.	31 mg/l	30 mg/l
	TSS, Mass	222 lbs/day	188 lbs/day
	TSS, Monthly Avg.	144 mg/l	90 mg/l
	TSS, Weekly Avg.	190 mg/l	135 mg/l
12-07	TSS, Mass	229 lbs/day	188 lbs/day
	TSS, Monthly Avg.	101 mg/l	90 mg/l
	TSS, Weekly Avg.	164 mg/l	135 mg/l

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Date	Parameter	DMR Value	Permit Limit
01-08	BOD ₅ , Mass	89 lbs/day	63 lbs/day
	BOD ₅ , Monthly Avg.	35 mg/l	30 mg/l
	BOD ₅ , Weekly Avg.	60 mg/l	45 mg/l
	TSS, Mass	252 lbs/day	188 lbs/day
	TSS, Monthly Avg.	100 mg/l	90 mg/l
	TSS, Weekly Avg.	166 mg/l	135 mg/l
04-08	BOD ₅ , Mass	98 lbs/day	63 lbs/day
	BOD ₅ , Monthly Avg.	42 mg/l	30 mg/l
	BOD ₅ , Weekly Avg.	50 mg/l	45 mg/l
06-08	BOD ₅ , Mass	95 lbs/day	63 lbs/day
	BOD ₅ , Monthly Avg.	60 mg/l	30 mg/l
	BOD ₅ , Weekly Avg.	99 mg/l	45 mg/l
01-09	BOD ₅ , Mass	98.3 lbs/day	63 lbs/day
	BOD ₅ , Monthly Avg.	40 mg/l	30 mg/l
	BOD ₅ , Weekly Avg.	54 mg/l	45 mg/l
02-09	BOD ₅ , Mass	69 lbs/day	63 lbs/day
	TSS, Mass	218 lbs/day	188 lbs/day

XI.

ADDITIONAL INFORMATION:

Final effluent loadings (i.e. lbs/day) have been established based upon the permit limit concentrations and the design capacity of 0.25 MGD.

Effluent loadings are calculated using the following example:

$$\text{BOD: } 8.34 \text{ gal/lb} \times 0.25 \text{ MGD} \times 30 \text{ mg/l} = 63 \text{ lb/day}$$

At present, the **Monitoring Requirements, Sample Types, and Frequency of Sampling** as shown in the permit are standard for facilities of flows between 0.1 and 0.5 MGD.

Effluent Characteristics

Flow
BOD₅
Total Suspended Solids
Fecal Coliform Bacteria
pH

Monitoring Requirements

<u>Measurement</u>	<u>Sample</u>
<u>Frequency</u>	<u>Type</u>
Continuous	Recorder
2/mo.	Grab
2/mo.	Grab
2/mo.	Grab
2/mo.	Grab

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Pretreatment Requirements

Based upon consultation with LDEQ pretreatment personnel, it is recommended that LDEQ Option 1 Pretreatment Language be included in LPDES Permit LA0065340.

This language is established for municipalities that do not have either an approved or required Pretreatment program. This recommendation is in accordance with 40 CFR Part 403 regulations, the General Pretreatment Regulations for Existing and New Sources of Pollution contained in LAC Title 33, Part IX, Chapter 61 and the Best Professional Judgement (BPJ) of the reviewer.

Pollution Prevention Requirements

The permittee shall institute or continue programs directed towards pollution prevention. The permittee shall institute or continue programs to improve the operating efficiency and extend the useful life of the facility. The permittee will complete an annual Environmental Audit Report **each year** for the life of this permit according to the schedule below. The permittee will accomplish this requirement by completing an Environmental Audit Form which has been attached to the permit. Please make additional copies to be utilized for each year of this permit. All other requirements of the Municipal Wastewater Pollution Prevention Program are contained in Part II of the permit.

The audit evaluation period is as follows:

Audit Period Begins	Audit Period Ends	Audit Report Completion Date
Effective Date of Permit	12 Months from Audit Period Beginning Date	3 Months from Audit Period Ending Date

XII. TENTATIVE DETERMINATION:

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to reissue a permit for the discharge described in this Statement of Basis.

XIII. REFERENCES:

Louisiana Water Quality Management Plan, Vol. 10, "Wasteload Allocations and Discharger Inventory", Louisiana Department of Environmental Quality, 1992.

Louisiana Water Quality Management Plan, Vol. 5-B, "Water Quality Inventory", Louisiana Department of Environmental Quality, 1998.

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Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 11 - "Louisiana Surface Water Quality Standards", Louisiana Department of Environmental Quality, 1999.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 23 - "The LPDES Program", Louisiana Department of Environmental Quality, 1999.

Low-Flow Characteristics of Louisiana Streams, Water Resources Technical Report No. 22, United States Department of the Interior, Geological Survey, 1980.

Index to Surface Water Data in Louisiana, Water Resources Basic Records Report No. 17, United States Department of the Interior, Geological Survey, 1989.

LPDES Permit Application to Discharge Wastewater, Town of Melville, Melville Wastewater Treatment Plant April 13, 2009.